

Oregon Department of Environmental Quality
**Soil/Sediment Clean Fill Screening Table
for Terrestrial/Upland Uses***

Contaminant of Concern	CASRN	Concentration (mg/Kg)	Pathway/Receptor
Metals/Inorganics			
Antimony	7440-36-0	4	Default background (a)
Arsenic	7440-38-2	7	Default background (a)
Barium	7440-39-3	1.04	Ecological SL shrew (b)
Beryllium	7440-41-7	1.06	Ecological SL shrew (b)
Cadmium	7440-43-9	1	Default background (a)
Chromium	7440-47-3	42	Default background (a)
Cobalt	7440-48-4	0.14	Ecological SL shrew (b)
Copper	7440-50-8	36	Default background (a)
Cyanide	57-12-5	0.0001	Ecological SL sediment (b)
Lead	7439-92-1	17	Default background (a)
Manganese	7439-96-5	100	Ecological SLV invertebrates (c)
Mercury	7439-97-6	0.07	Default background (a)
Nickel	7440-02-0	38	Default background (a)
Silver	7440-22-4	1	Default background (a)
Selenium	7782-49-2	2	Default background (a)
Vanadium	7440-62-2	1.59	Ecological SL shrew (b)
Zinc	7440-66-6	86	Default background (a)
Volatile Organics			
Acrylonitrile	107-13-1	0.00029	Leaching to groundwater (d)
Benzene	71-43-2	0.0093	Leaching to groundwater (d)
Bromodichloromethane	75-27-4	0.0025	Leaching to groundwater (d)
Bromoform	75-25-2	0.22	Leaching to groundwater (d)
Bromomethane	74-83-9	0.098	Leaching to groundwater (d)
Carbon tetrachloride	56-23-5	0.013	Leaching to groundwater (d)
Chlorobenzene	108-90-7	6.5	Leaching to groundwater (d)
Chlorodibromomethane	124-48-1	0.016	Leaching to groundwater (d)
Chloroethane	75-00-3	320	Leaching to groundwater (d)
Chloroform	67-66-3	0.0033	Leaching to groundwater (d)
Chloromethane	74-87-3	2.2	Leaching to groundwater (d)
1,2-Dichlorobenzene	95-50-1	0.294	Ecological SL sediment (b)
1,4-Dichlorobenzene	106-46-7	0.081	Leaching to groundwater (d)
1,1-Dichloroethane	75-34-3	0.037	Leaching to groundwater (d)
1,1-Dichloroethene	75-35-4	11	Leaching to groundwater (d)
cis-1,2-Dichloroethene	156-59-2	6	Leaching to groundwater (d)
trans-1,2-Dichloroethene	156-60-5	2.5	Leaching to groundwater (d)
Dichloromethane	75-09-2	0.038	Leaching to groundwater (d)
2,6-Dinitrotoluene	606-20-2	4.2	Leaching to groundwater (d)
EDB (1,2-dibromoethane)	124-48-1	0.000081	Leaching to groundwater (d)
EDC (1,2-dichloroethane)	107-06-2	0.0014	Leaching to groundwater (d)
Ethylbenzene	100-41-4	0.16	Leaching to groundwater (d)
Propylbenzene, iso-	98-82-8	3,500	Residential (d)
Styrene	100-42-5	0.254	Ecological SL sediment (b)
Tetrachloroethene	127-18-4	0.0054	Leaching to groundwater (d)
1,1,1-Trichloroethane	71-55-6	400	Leaching to groundwater (d)

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1,1,2-Trichloroethane	79-00-5	0.0046	Leaching to groundwater (d)
Trichloroethylene	79-01-6	0.0023	Leaching to groundwater (d)
Trichlorofluoromethane	75-69-4	72	Leaching to groundwater (d)
1,2,4-trimethylbenzene	95-63-6	16	Leaching to groundwater (d)
1,3,5-trimethylbenzene	108-67-8	3.1	Leaching to groundwater (d)
Toluene	108-88-3	5.45	Ecological SL shrew (b)
Xylenes	1330-20-7	25	Leaching to groundwater (d)
Vinyl Chloride	75-01-4	0.00051	Leaching to groundwater (d)
Semi-Volatile Organics			
Acenaphthene	83-32-9	0.007	Ecological SLV sediment (c)
Acenaphthylene	208-96-8	0.006	Ecological SLV sediment (c)
Anthracene	120-12-7	0.047	Ecological SLV sediment (c)
Fluoranthene	206-44-0	0.111	Ecological SLV sediment (c)
Fluorene	86-73-7	0.021	Ecological SLV sediment (c)
1-Methylnaphthalene	90-12-0	0.012	EPA RSL groundwater protection (e)
2-Methylnaphthalene	91-57-6	0.02	Ecological SLV sediment (c)
Naphthalene	91-20-3	0.035	Ecological SLV sediment (c)
LPAH		0.076	Ecological SLV sediment (c)
Benz(a)anthracene	56-55-3	0.032	Ecological SLV sediment (c)
Benzo(a)pyrene	50-32-8	0.015	Residential (d)
Benzo(b)fluoranthene	205-99-2	0.15	Residential (d)
Benzo(k)fluoranthene	207-08-9	0.027	Ecological SLV sediment (c)
Chrysene	218-01-9	0.057	Ecological SLV sediment (c)
Dibenz(a,h)anthracene	53-70-3	0.006	Ecological SLV sediment (c)
Indeno(1,2,3-cd)pyrene	193-39-5	0.017	Ecological SLV sediment (c)
HPAH		0.193	Ecological SLV sediment (c)
Total PAH		1.61	Ecological SLV sediment (c)
Bis(2-ethylhexyl)phthalate	117-81-7	35	Residential (d)
Di-n-propylnitrosamine	621-64-7	0.0012	Leaching to groundwater (d)
1,4-Dioxane	123-91-1	0.023	Leaching to groundwater (d)
Diphenylnitrosamine	86-30-6	4.5	Leaching to groundwater (d)
Formaldehyde	50-00-0	33	Leaching to groundwater (d)
Hexachlorobenzene	118-74-1	0.019	Bioaccumulation SLV (f)
Hexachloroethane	67-72-1	2.2	Leaching to groundwater (d)
2-Methylphenol	95-48-7	2	Leaching to groundwater (d)
4-Methylphenol	106-44-5	0.19	Leaching to groundwater (d)
MTBE	1634-04-4	0.092	Leaching to groundwater (d)
Pentachlorophenol	87-86-5	0.25	Bioaccumulation SLV (f)
Phenol	108-95-2	6.3	EPA RSL groundwater protection (e)
Pyrene	129-00-0	0.053	Ecological SLV sediment (c)
2,3,7,8-TCDD (Dioxin)	1746-01-6	9.10E-09	Bioaccumulation SLV (f)
2,4,6-Trichlorophenol	88-06-2	1.9	Leaching to groundwater (d)
Pesticides/PCBs			
Aldrin	309-00-2	0.029	Residential (d)
Chlordane	5103-71-9	0.00037	Bioaccumulation SLV (f)
DDX (sum of DDD, DDE, DDT)	50-29-3	0.00033	Bioaccumulation SLV (f)
2,4-D	94-75-7	4.8	Leaching to groundwater (d)

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Dieldrin	60-57-1	8.10E-06	Bioaccumulation SLV (f)
Endrin	72-20-8	0.004	Bioaccumulation SLV (f)
Endosulfan	115-29-7	0.11	Bioaccumulation SLV (f)
Heptachlor	76-44-8	0.11	Residential (d)
Heptachlor Epoxide	1024-57-3	0.0006	Ecological SLV sediment (c)
Hexachlorocyclohexane, alpha- (alpha HCH)	319-84-6	0.0048	Leaching to groundwater (d)
Hexachlorocyclohexane, gamma- (Lindane)	58-89-9	0.017	Leaching to groundwater (d)
MCPA		0.24	Leaching to groundwater (d)
PCBs (total)		0.00039	Bioaccumulation SLV (f)
Toxaphene	8001-35-2	0.44	Residential (d)
Tributyltin	56573-85-4	0.0023	Bioaccumulation SLV (f)
Petroleum			
Gasoline		28	Leaching to groundwater (d)
TPH - Diesel & Heavy Oil (combined total)		100	UST Cleanup Level I criteria (g)

Notes:

*Clean Fill as defined in OAR 340-093-0030 does not contain contaminants which could adversely impact waters of the State or public health. In-water uses of soil or sediment must be approved through state and federal removal/fill regulations.

- (a) Default background values are listed if the lowest screening value is below background; DEQ *Human Health Risk Assessment Guidance*, October 2010, Table 1 Oregon Default Background Concentrations for Inorganic Chemicals
- (b) U.S. EPA Region 5, RCRA Ecological Screening Levels, August 22, 2003
- (c) DEQ *Guidance for Ecological Risk Assessment, Level II Screening Level Values*, December 2001
- (d) DEQ Risk-Based Concentrations for Individual Chemicals, Revision: September 15, 2009
- (e) U.S. EPA Regional Screening Level, December 2009
- (f) DEQ *Guidance for Assessing Bioaccumulative Chemicals of Concern in Sediment*, Updated April 3, 2007
- (g) OAR 340-122-0335 Numeric Soil Cleanup Standards, Level I